MIX DESIGN & PROPORTIONING
QC/QA SUPERSTRUCTURE CONCRETE

Mix Identification No. & Intended Use:_____

Initial Parameters for m^3 Concrete (see Note 1)	
Target Cement Content, kg	
Target Pozzolan Content, kg	
Target Silica Fume Content, kg	
Target Water / Cementitious Ratio, by wt.	
Target Cement / Pozzolan Ratio, by wt.	
Target % Silica Fume	
100 FA / FA+CA, Target, % by volume	
FA Bulk Sp. Gr. (SSD)	
FA Absorption, %	
CA Bulk Sp. Gr. (SSD) per procedure 8.2	
CA Absorption, % per procedure 8.2	

CA Bulk Sp. Gr. (SSD) & Absorption per Procedure 8.1 AASHTO T 85
__ . __ __ __ , __ . __ __ %

Material	Size, Type or Class	Source	Design Batch Weights kg	Specific Gravity	Absolute Volume m^3
Cement				3.150	
Pozzolan					
Silica Fume					
FA					
CA (see Note 2)					
Water				1.000	
Air	entrained	see table below	0.0	-NA-	0.0650
Σ	-NA-	-NA-		-NA-	1.0000

Admixture Name	Admixture Type	Source	Range of Dosage Rate ml/100 kg
	AEA		

Note 1 – Aggregate Batch Weights For Mix Design shall be saturated surface dry (SSD). Aggregate Bulk Sp. Gr. (SSD) & Absorption will be checked against source records for INDOT concurrence. Call District Geologist for assistance.

Note2 – Is Class AP coarse aggregate require? [ ] yes [ ] no

CMD Linear Equation: Unit Weight = _____ (Air Content) + _____

Threshold Equation At Maximum Allowable Water/Cementitious Ratio: UW = _____(Air) + _____

(see attached worksheets)

PE/PS Approval: _____